

What is claimed is:

1. A radio video transmission device for encoding a
5 video signal and radio-transmitting the encoded video signal,
the radio video transmission device being configured such that
encoding is performed in units of a video signal corresponding
to a predetermined number of vertical periods, intervals at
which data of a header of the encoded video signal
10 corresponding to the predetermined number of vertical periods
is transmitted conform to the predetermined number of vertical
periods, and during transmission of the header data of the
video signal corresponding to the predetermined number of
vertical periods, information indicative of the header data is
15 multiplexed and transmitted.

2. A signal generation device for generating an encoded
transmission signal which is used for transmitting a video
signal through radio communication,

20 wherein

a transmission signal including information obtained by
encoding a video signal in units of a video signal
corresponding to a predetermined number of vertical periods is
generated, and

a flag indicative of a header portion of the transmission signal is added to the header portion of the transmission signal.

5 3. A radio video reception device for radio-receiving a video signal which is encoded, comprising:

 a flag extraction section which extracts a flag indicative of a header portion of a received transmission signal added to the header portion of the transmission signal and outputs a
10 reference signal at timing of extraction of the flag;

 a phase comparison section which outputs a phase comparison output signal in accordance with a phase difference of periods between a decoding synchronization signal and the reference signal output from the flag extraction section;

15 a voltage controlled oscillator which outputs an oscillation signal having an oscillation frequency in accordance with the phase comparison output signal output from the phase comparison section; and

 a timing generation section which outputs, as the decoding
20 synchronization signal, a signal corresponding to the frequency of the oscillation signal output from the voltage controlled oscillator,

 wherein an encoded video signal included in the transmission signal is decoded in synchronization with the
25 decoding synchronization signal.

4. A signal decoding device for decoding a transmission signal received through radio communication, comprising:

a flag extraction section which extracts a flag indicative of a header portion of the transmission signal added to the

5 header portion of the transmission signal which is radio-received,

wherein an encoded video signal included in the transmission signal is decoded at timing in accordance with a reference signal output from the flag extraction section.

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5. A signal decoding device according to claim 4, comprising:

a phase comparison section which outputs a phase comparison output signal in accordance with a phase difference
15 of periods between a decoding synchronization signal and the reference signal output from the flag extraction section;

a voltage controlled oscillator which outputs an oscillation signal having an oscillation frequency in accordance with the phase comparison output signal output from
20 the phase comparison section; and

a timing generation section which outputs, as the decoding synchronization signal, a signal corresponding to the frequency of the oscillation signal output from the voltage controlled oscillator,

wherein the encoded video signal included in the transmission signal is decoded in synchronization with the decoding synchronization signal.

5 6. A radio video transmission/reception system comprising a radio video transmission device according to claim 1 and a radio video reception device according to claim 3.

10 7. A signal generation/decoding device comprising a signal generation device according to claim 2 and a signal decoding device according to claim 4.